

ABAG  
July/Aug 2002



# Service Matters

## Construction Defect Litigation Forum Breaks New Ground Removing Barriers to Building More Affordable Housing

**C**onstruction defect litigation has been singled out as one of the key factors contributing to the decline of attached housing production over the last decade. A working group of building contractors and trial attorneys, led by State Senator John Burton and building on prior efforts of State Assembly Member John Dutra, is currently trying to bring needed reform to construction defect law.

The Association of Bay Area Governments and its Regional Planning Committee (RPC) spotlighted its crucial importance by sponsoring, with the Silicon Valley Manufacturing Group (SVMG) and other partners, a *Construction Defect Litigation Forum* on May 31, 2002. Other supporting partners included the American Institute of Architects California Council, the California Building Association, Emerald Fund, Home Builders Association of Northern California, KB Homes, and the Personal Insurance Federation of California.

### What is the Issue?

Millie Greenberg, RPC Chair and Town of Danville Councilmember, told the attendees that “the RPC first discussed construction defect reform as a smart growth way to build more housing and more affordable housing. We then used our April meeting to focus on finding a solution to this long debated issue, which then led to the *Forum*. Resolving the construction litigation dilemma is paramount to affordable housing development and resolving the housing crisis.” Attached housing (condominiums and town homes) is a common source of affordable housing throughout the country, particularly in the Bay Area. With very-low and low income housing needs projected to significantly increase over the next decade, reform legislation is considered critical to opening the door for more affordable housing development.

Co-sponsor SVMG added workforce housing as another dimension in construction defect litigation reform. According to Carl Guardino, President and CEO, “We are concerned about workforce housing and the relationship that this has with our economy. Our surveys show that the market supports housing that is located closer to work centers, which would reduce the amount of time spent commuting.”

*Service Matters* is a publication of the Association of Bay Area Governments, the planning and services agency for the San Francisco Bay Area's 9 counties and 101 cities.

### The Forum Program

The *Construction Defect Litigation Forum* was an important event because it refocused the reform discussion to include not only building contractors and trial attorneys, but also insurers, the design professionals, developers, affordable housing advocates, homeowners, and local government representatives. Bringing together different viewpoints on construction defect law was considered essential for gaining new insights into the problems and for proposing potential solutions. The Forum's panel of experts discussed how construction defect litigation affects the industries and interests they represent. All participants, panelists, and attendees reinforced the need for legislation to reform insurance liability, inspection guidelines, dispute resolution, and mediation, and the need to significantly improve the system of communication between homeowners and builders. Ultimately, reform in these areas will lead to higher quality construction of all types.

In particular, panelists from the **building and design industry** described the impact of increasing costs of professional insurance and the tight limits on numbers of attached home units. Kimberly Dellinger, Legislative Advocate for the California Building Industry Association, stated that: “Contractors and subcontractors are seeing drastic increase in insurance costs. Recently, a roofer saw an increase of general insurance costs from \$50,000 to \$300,000 and a limit of 250 units. The increase in insurance costs and the caps on units severely limits the ability of builders to construct attached housing. Roofing contractors are being pulled into lawsuits over tennis court defects. Builders also need the right to repair before lawsuits go to court.”

*Construction Defect cont. on pg. 2*

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## Construction Defect Litigation

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Clark Manus, CEO/Principal of Heller Manus Architects, commented: "There are excellent opportunities to design, build and live in attached homes, in the regional core of the Bay Area. Attached homes (condominiums) offer opportunities for livable communities, especially in accommodating the estimated population growth. But the restrictions placed by the insurance companies and the concern over lawsuits prevents architects and engineers from participating in attached housing projects."

**Trial attorney** Tyler Berding, Partner at Berding & Weil, LLP commented that litigation is currently the only way homeowners can get a remedy for a construction defect - and it works. The solution, he says, is high quality construction. "Litigation is a remedy that works for the low quality construction problem. Land costs are very expensive and low-rise construction on expensive land ends up not being done properly to meet the budgetary restrictions placed on the project. The wood-frame construction of low-rise does not last, unlike the engineered, steel-frame construction of a high-rise. Homeowners cannot get a remedy any other way until construction is done better."

Dan Dunmoyer, President, Personal Insurance Federation of California, presented the problems that insurance companies are facing. He explained that the **insurance industry** has passed along the increased costs and placed restrictions on the number of projects because, for every dollar paid in, the insurance company is paying out four dollars in litigation settlements. "Insurance companies are

in business to make money and are moving out of providing construction (design and building) insurance because it loses money. The companies that are

still providing construction insurance are balanced by other business lines," he stated.

Dunmoyer concluded that, "Contractors in Washington, California, Nevada and Arizona are sued more often than anywhere else in the United States. Is this due to poor construction in those states only or due to the litigious nature and poorly structured laws? I think it is the latter. As the system is set up right now, litigation pulls all members of the design and construction team into the suit. The insurer cannot delineate which team member is more at risk than others, which is why even temporary fencing contractors get involved in roofing lawsuits."

When it comes to economic impact, **employers** are concerned that a housing shortage directly affects economic development. According to Bud Mission, Co-Chair of Silicon Valley Manufacturing Group's Land Use and Housing Commission and Facilities Manager for Roche Bioscience, "This critical shortage of homes, especially affordable homes, impacts the economy. Industry cannot attract workers and is losing its workforce due to the high living costs. The state is facing a housing shortage of 50,000 to 70,000 homes a year. Attached homes give new homeowners and seniors more options. Construction defects vary widely and there are guidelines to define major or minor defects. However, there is no way to identify good and not so good contractors."

Conclusions reached during the *Forum* by the 65 participants will be presented to the RPC, who will recommend potential action for ABAG's Legislation and Governmental Organization Committee and Executive Board. *For more information on this Forum, reform recommendations, and related issues, contact Christy Riviere, ABAG Regional Planner, at 510/464-7923.*



Attached Housing under Construction

### Gwen Regalia

ABAG President,  
Mayor Pro Tem, City of Walnut Creek

### Scott Haggerty

ABAG Vice President,  
Alameda County Supervisor

### Richard (Dick) Spees

ABAG Immediate Past President,  
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### Eugene Y. Leong

Secretary/Treasurer and Executive Director

Patricia M. Jones - Managing Editor

Kathleen Cha - Editor/Writer

Leah Zippert - Writer

Halimah Anderson - Writer

Vicki Rutherford - Design & Production



Association of Bay Area Governments

P.O. Box 2050  
Oakland, CA 94604-2050  
Phone: 510.464.7900

Fax: 510.464.7970

E-mail: [info@abag.ca.gov](mailto:info@abag.ca.gov)

abagOnline: <http://www.abag.ca.gov>

## On the Bay Trail

**H**ike through the Benicia State Recreation Area on **Saturday, August 17, 2002**, from 10 a.m. to 1 p.m. This six-mile hike is a special event sponsored by ABAG's Bay Trail and is part of the month-long ***Celebrate the Strait*** calendar of events highlighting the cultural, historic, industrial, and natural resources of the Carquinez Strait.

This shared alignment of the Bay Trail and the Ridge Trail extends from bay marshlands to hilltops above the Carquinez Strait. Bring lunch and water and meet in the Benicia State Recreation Area east parking lot at the Military West Exit.

*For more information, call 510/464-7909 or see [www.carquinezstrait.org](http://www.carquinezstrait.org).*

**See More Bay Trail Events on Back Calendar Page**

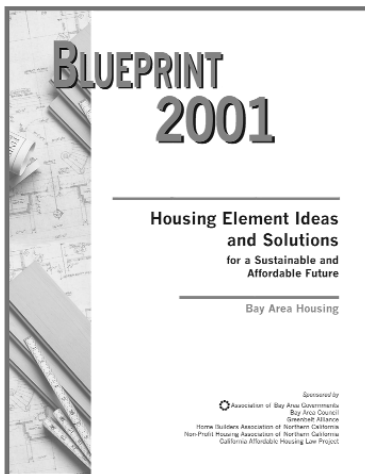
## ABAG Financial Services Program Recognized Nationally Innovative, Collaborative Services Praised

In this critical time of limited state and local budgets and restricted funding sources, ABAG Financial Services Program brings together a range of public agencies and private organizations to maximize resources. Members gain access to municipal bond market and other financing opportunities at significantly better interest rates and have the opportunity to save considerably on public financing costs. This innovative, collaborative service was recognized by the National Association of Regional Councils (NARC) during the organization's 36th Annual Conference in Tuscon, Arizona, June 22-25, 2002. NARC awarded ABAG the 2002 *Distinguished Achievement Award for Regional Excellence*.

ABAG Financial is a unique and model program offering focused opportunities for nonprofit corporations, credit pooling, leasing, special assessment bonds, and capital improvement bonds. To be funded, projects must

demonstrate a public benefit. Bonds have financed the construction of new hospitals and clinics (such as Oakland Children's Hospital expansion), expansion of a mass transit system (Bay Area Rapid Transit to the San Francisco Airport), and purchase of new modular classrooms to accommodate growing school attendance.

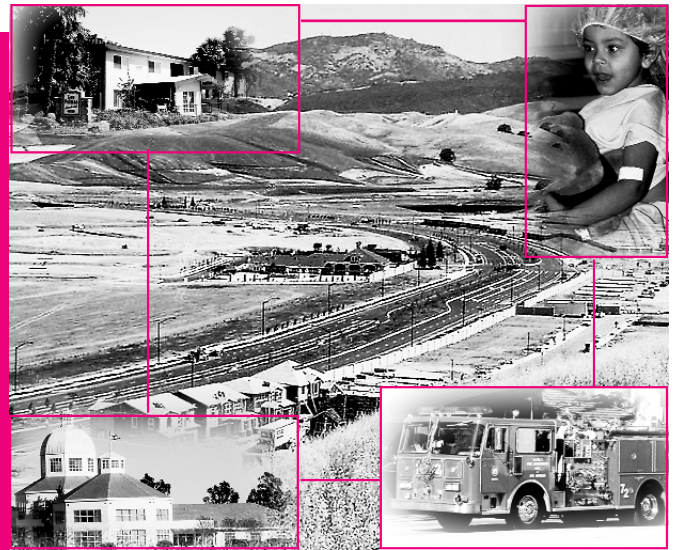
NARC achievement awards are given to regional councils of government for excellence in programs and services. The ABAG Financial Services Program was honored in the major metro category for regional councils with one million or more in population. Only one *Distinguished Achievement Award* is given nationally per category.



### Blueprint 2001 Wins Award

The need for housing in the Bay Area to accommodate diverse income categories has long been one of the top regional concerns. Addressing this concern

and meeting Bay Area housing needs takes a collaborative, well-planned effort by Bay Area governments and the public. Part of the planning for this collaborative process was the development of the *Blueprint 2001 for Bay Area Housing: Housing Element Ideas and Solutions for a Sustainable and Affordable Future*. ABAG's *Blueprint 2001* has been recognized with a **Merit Award** for innovative plans by the California Chapter American Planning Association (CCAPA). This CCAPA Award Program encourages quality in planning to increase the public's awareness of the planning profession through recognizing outstanding achievement in the planning field.



*Blueprint 2001* is a handbook and guide to developing housing elements and programs that make affordable and well-located housing a reality in each community. It explores innovative ways to tackle the Bay Area's housing needs and is designed to be useful to policymakers, staff, advocates, and citizens. This resource provides local governments with information on the housing element process, community participation strategies, and financial resources. It also outlines the state's housing element requirements and provides information to assist in addressing those requirements. *Blueprint 2001* is available through ABAG's webstore (\$30 plus sales tax, shipping, and handling) at <http://webstore.abag.ca.gov/cgi-bin/minivend/simple/> or by calling ABAG at 510/464-7900.



## Green Business Program Serves as Model for Environmentally-Sound Business and Government Practices

**F**ueled by a desire to reduce regional hazardous and solid waste, conserve resources, and prevent pollution in the Bay Area, the Green Business Program has achieved great milestones since it was first launched in 1996. The program, developed by the Association of Bay Area Governments' Hazardous Waste Management Facility Allocation Committee, initially offered environmental technical assistance and incentives to auto repair shops in Alameda and Napa County. The Green Business Program is now available to many businesses in six Bay Area counties including **Alameda, Contra Costa, Marin, Napa, Santa Clara, and Sonoma Counties.**

"From targeting one industry, we now are offered to all industries in four of the six participating counties. We have certified businesses in 17 industries. This demonstrates the program's flexibility and broad appeal," stated Ceil Scandone, ABAG Senior Regional Planner and Regional Green Business Program Coordinator. There are approximately 200 certified Green Businesses in the Bay Area and the numbers continue to increase.

In April, during Earth Week, **Marin County** became the newest county to join the Green Business partnership, offering recognition and congratulations to the first five firms to achieve certification. Marin County has certified businesses in the cities of **Novato** and **San Rafael**. Champions who helped bring the program to Marin County include **Marin County** Supervisor Cynthia Murray, **Novato** Councilmember Pat Eklund, **Marin County** Community Development Director Alex Hinds, and Green Business Coordinator Dawn Weisz.

### Local Governments Go Green

Not only have local governments been successful in helping businesses adopt environmentally-friendly practices, local governments have also been recognized for employing environmentally-sound practices in their jurisdictions. Several local governments are leading by example with certified Green Business government agencies. In **Alameda County**, Alameda Power and

Telecom, East Bay Regional Park District, East Bay Municipal Utility District Fleet Maintenance Facility and Reprographics Departments, **Oakland** Truck and Heavy Equipment Service Center, **Oakland** Municipal Service Center, and **Union City** Public Works Maintenance Facility are certified Green Businesses. **Contra Costa County's** Fleet Maintenance Operations is certified green, as well as the Fleet Maintenance Operations for the cities of **Pittsburg, Pleasant Hill, and San Ramon**. **Sonoma County's** Office of Education Print Shop and the City of **Palo Alto's** Print Shop are also certified.

The Green Business Program has had impact beyond the Bay Area and is increasingly being recognized as a valuable model. Other California regions, the State of Arizona, and the State of Hawaii have met with Bay Area Green Business Coordinators to discuss program implementation in their jurisdictions.



Green Business Printing Operations

### Partnership Resources

The Program brings together local, regional, state and federal government partners, including air and water quality agencies, waste management and recycling programs, hazardous materials programs, certified unified program agencies, water and energy utilities, and fire departments with trade associations and businesses. For example, the Department of Toxic Substances Control (DTSC) is a major partner in the Green Business Program and has provided printing and marketing materials for the program. DTSC expert Ray Wong frequently serves as a resource and answers pollution prevention questions received from Green Businesses and the public who visit the Green Business website. Other partners include the California Integrated Waste Management Board, U.S. Environmental Protection Agency, and its Environmental Finance Center Region 9 which have provided direct grants and developed tools to help businesses implement greener practices. Pacific Gas and Electric Company has contributed energy audit training and marketing assistance.

## New Data Helps Local Government Prepare For the Next Big One

New ABAG earthquake models predict that after the next major earthquake hundreds more roads will be closed than previously expected. The analyses changed significantly to reflect scientists' better understanding of earthquakes. The major factor increasing the projected road closure numbers is that several earthquakes on longer faults (also known as earthquakes on multiple fault segments) have been modeled for the first time. These changes were precipitated in response to the aftermath and lessons learned from the 1999 Kocaeli, Turkey earthquake as well as other recent large earthquakes.

The predictions also demonstrate that, when the ability of local government and business to provide disaster relief services and to move goods and people is disrupted because of an earthquake, then the short and the long-term repercussions could be catastrophic. The repercussions go beyond immediate structural damage costs to lost income and derailed economic vitality. As a result, these projections are valuable for local governments and individuals as they undertake appropriate disaster planning. "These new earthquake numbers allow us to plan more appropriately, which helps us create safer conditions for all our Bay Area residents," stated Julia Miller, **City of Sunnyvale** Councilmember and Chair of the ABAG Earthquake and Transportation Information Review Committee.



### Report Ranks Road Closures

The highest number of road closures (1,734) originates from an earthquake on the entire Hayward fault (from San Pablo Bay to the Alameda-Santa Clara County border). However, the next largest number of closures projected affects Marin, San Francisco, and San Mateo Counties. It is a repeat of the 1906 earthquake on the San Andreas fault and closes an estimated 1,332 roads. The South Hayward scenario (Oakland to the Alameda - Santa Clara County border) results in an estimated closure of 1,138 roads in the East Bay. Affecting both the North and East Bay is the earthquake scenario on the Rodgers Creek and North Hayward (Healdsburg to Oakland), with a predicted result of 1,084 road closures.

The majority of the earthquake scenarios projections show more road closures than the Loma Prieta earthquake caused in the San Francisco and Monterey Bay Areas combined. It is estimated that the top five earthquake scenarios will close over five times as many roads than either the Loma Prieta or the Northridge earthquakes. It should be noted that the scenarios only incorporate direct and indirect causes of closures, and do not even indicate the worst case estimates, which would include secondary disasters such as fires, large toxic gas releases, and other factors.

*Road Closures cont. on pg. 6*

*Green Business cont. from pg. 4*

### Why Does the Program Work?

"The Green Business Program creates a profitable partnership between government, business, and a concerned public that benefits the environment, increases operating efficiency, and improves the "bottom line," stated **Alameda County** Green Business Coordinator Pam Evans. Businesses receive free onsite compliance assistance, positive public recognition, and business promotion. Businesses that become *green* can potentially save money by reducing waste and utility costs, and improving systems and equipment performance. Green businesses also attract environmentally-conscious customers. The Green Business Program recently demonstrated its commitment to environmentally-preferable purchasing by having new directory covers

printed by a certified green printer. ABAG held its Fall 2001 General Assembly at the Oakland Marriott, one of three certified green hotels in Alameda County.

Future plans include adding more counties to the roster. San Francisco has indicated that they will join within the next year. Current county coordinators include Robin Bedell-Waite of **Contra Costa County**, Jill Pahl of **Napa County**, Carol Berg of **Santa Clara County**, Sophia Galifaro of **Sonoma County**, as well as Pam Evans of **Alameda County**, and Dawn Weisz of **Marin County**. The Program website at [www.greenbiz.abag.ca.gov](http://www.greenbiz.abag.ca.gov) includes Green Business listings and information about how to become certified. For more details, contact Regional Green Business Coordinator Ceil Scandone at 510/464-7961.

# ABAG GIS Maps

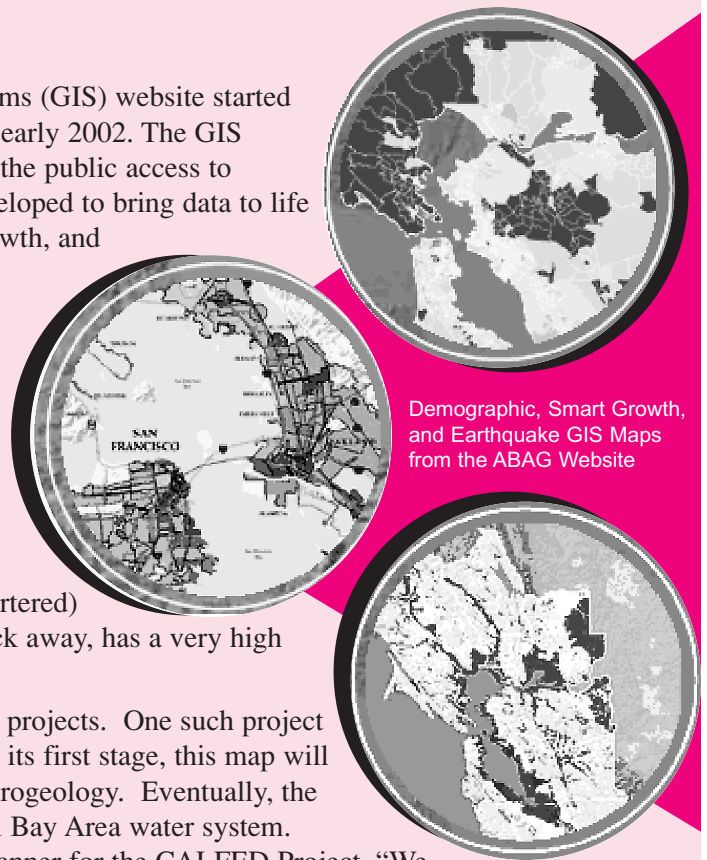
## A Window to Visual Data

**P**lanning for ABAG's Geographic Information Systems (GIS) website started about 18 months ago with the website unveiling in early 2002. The GIS website is a service that offers cities, counties, and the public access to ABAG programs in a new way—visually. The site was developed to bring data to life and let people see what data means. Earthquake, Smart Growth, and Demographic data now all have easy access maps.

Earthquake maps allow identification of the liquefaction susceptibility of the Bay Area. If you want to see the data developed for the bi-annual *Projections*, it is now in the Demographic part of the site. The Smart Growth maps show the details of the three alternatives developed during the public meetings phase of the project. The maps allow searches by region, county, and city and the zoom feature provides additional information. For example, on the Earthquake map, the MetroCenter (where ABAG is headquartered) has a moderate susceptibility, while Laney College, one block away, has a very high susceptibility of liquefaction.

This summer will see additional mapping for several ABAG projects. One such project is a regional water system map for the CALFED Project. In its first stage, this map will show the complex water supplier system, land uses, and hydrogeology. Eventually, the map will provide much more information about the complex Bay Area water system. According to Kathleen Van Velsor, Senior Environmental Planner for the CALFED Project, "We need to enhance how we communicate this complicated information with the public, the water suppliers, local elected officials, city and county staff, and our task force partners in Sacramento and Washington D. C. This map project is a good start to educating all of our constituencies on the Bay Area's water system."

Visit the ABAG GIS website at <http://gis.abag.ca.gov/website/> to view the changing face of data presentation. For more information on ABAG GIS, contact Kearey Smith at 510/464-7994.



Demographic, Smart Growth, and Earthquake GIS Maps from the ABAG Website

Road Closures. cont. from pg. 5

### Why Did the Numbers Change?

These new estimates are based on an extensive statistical analysis of road closures from the Loma Prieta and Northridge Earthquakes. Since first estimated in 1997, several factors have changed in the models that have then changed the closure numbers. The major factor affecting road closure numbers is the modeling of large earthquakes (multiple fault segments) in the Bay Area. Other factors include the results of retrofit work, liquefaction analysis, fault segment redefinition, and the larger number of models run.

Several highway and road interchanges and bridges were retrofitted, which has helped reduce the number of closures. At the same time, the extensive liquefaction analysis performed by ABAG has tended to increase

closures. The U. S. Geological Survey has redefined the fault segments, changing the segment lengths and increasing closure estimates. There was also an increase in the number of earthquake scenarios from 11 to 18, incorporating the larger earthquake scenarios. The complete list and maps for each of the eighteen scenarios is available online at <http://quake.abag.ca.gov/traffic>.

ABAG has a sustained commitment to improving earthquake preparedness by making hazard and risk information more accessible to all Bay Area residents. These road closure estimates are the latest effort in a long series of reports, training programs, videos, and outreach efforts. Additional information is available online or by contacting Earthquake Program Manager Jeanne Perkins at 510/464-7934 or at [jeannep@abag.ca.gov](mailto:jeannep@abag.ca.gov).





Left: Assembly Member Dion Aroner and ABAG President and Walnut Creek Mayor Pro Tem Gwen Regalia. Center: Growing Smarter - A Policy Agenda Meeting. Right: Assembly Member Pat Wiggins; HCD Director Julie Bornstein, and Assembly Member Dion Aroner continue discussion of Incentive Legislation.

## Growing Smarter: A Policy Agenda Moving Forward

**S**ojourner Truth Presbyterian Church in Richmond was the inspirational site on June 13th for a forum designed to address policy changes needed at the state level to support smart growth in the Bay Area. More than 150 stakeholders representing decisionmakers from the state legislature, local government, and community groups gathered to dissect the barriers to achieving smarter land use patterns, and to propose incentives and regulatory changes necessary to produce accessible and affordable housing. **State Senator Tom Torlakson and Assembly Members Patricia Wiggins and Dion Aroner** joined Julie Bornstein, Director of the State Department of Housing and Community Development (HCD), in participating in this practical, strategy oriented dialogue.

Co-sponsored by the Bay Area Alliance for Sustainable Development and the California Policy Forum, the forum outlined four questions for participants to address. How can the Bay Area and its jurisdictions produce more housing in places close to jobs and transit? What actions and programs are being undertaken or anticipated at the state level to address this need? What revenue support do local governments need to accommodate housing and how can it be achieved? What other incentives and regulatory changes can be made to yield smart growth/smarter land use patterns?

**Richmond Councilmember Gary Bell**, representing Mayor Irma Anderson, described local housing programs such as their Infill Housing Development Program, Hope 6 grants to rebuild housing projects with town houses, and Downtown Redevelopment. **Arthur Hatchett**, Executive Director of the Greater Richmond Interfaith Program (GRIP), added insight into the social justice issues of affordable housing. He described how the faith community is working on housing the poor and homeless and on livable wage requirements. He also emphasized that coalitions are important to ensure that affordable housing is a priority.

**Contra Costa County Supervisor John Gioia** reiterated the importance of inclusionary zoning ordinances and focused attention on the need for incentives and subsidies and for fiscal reform to ensure that jurisdictions will have stable sources of income. **ABAG President and Walnut Creek Mayor Pro Tem Gwen Regalia** reported on countywide and regional visioning projects that examined

how to increase housing stock, referring to the special data for Contra Costa County that was being compiled to identify vacant and underutilized sites as part of the Shaping Our Future process. Regalia indicated that “community conversations” were a valuable part of the process and past efforts to achieve acceptance from neighborhood groups for multi-unit housing projects.

### Incentives Are Key

Gerry Raycraft, ABAG Planning Director, provided initial results of the Smart Growth Strategy/Regional Livability Footprint Project. Full data and conclusions are being compiled but preliminary results show that it was unanimous that incentives are key to making smart growth happen. The consensus is that housing growth patterns should center in urban areas, be transit oriented, and focus on infill development. Environmental regulations should be examined closely to ensure that they are appropriate for infill and brownfield sites, in particular streamlining CEQA regulations related to multi-family and transit-oriented developments.

Other incentives and regulations examined by the participants and state legislators Torlakson, Wiggins and Aroner included legislating financial incentives like designation of smart growth zones, senior housing subsidies, brownfield site incentives, commercial linkage fees, and a regional funding mechanism; pursuing fiscal tax reform; reprioritizing transportation funding to expand rail and bus corridors; and implementing construction defect litigation reform. A constant refrain from all participants was the need for more affordable “workforce” and entry level housing. **Julie Bornstein, Director of the California Department of Housing and Community Development (HCD)**, underscored HCD’s commitment to encourage an increase in housing, to provide incentives and assist the Housing Element process, as well as to ensure state resources for multi-family construction.

Participants stressed the continuing need for dialogue and a commitment to work together at the local and state level to turn these ideas into useful programs and resources.

*For further information, contact Ceil Scandone, ABAG Senior Regional Planner, at 510/464-7961. View the complete E-Summary of the meeting posted on the California Public Policy Forum’s website at <http://www.calpolicyforum.org/>.*

# MARK YOUR CALENDAR!

## July 2002

- 11 1:30 p.m. - 3:30 p.m.  
**ABAG CALFED Task Force  
Water Management**  
MetroCenter, ABAG 106B
- 17 12:30 - 3:00 p.m.  
**Inter-Regional Partnership**  
Livermore Council Chambers
- 17 12 noon - 2:00 p.m.  
**ABAG POWER Executive  
Committee**  
MetroCenter, ABAG 106B
- 18 3:30 p.m.  
**Legislation and Governmental  
Organization Committee**  
MetroCenter, ABAG 106B
- 18 5:00 p.m.  
**Finance & Personnel Committee**  
MetroCenter, Auditorium
- 18 7:30 p.m.  
**Executive Board**  
MetroCenter, Auditorium

- 29 1:00 p.m. - 3:30 p.m.  
**ABAG CALFED Task Force**  
MetroCenter, Auditorium

## Aug 2002

- 2 10:00 a.m.  
**Regional Steering Committee on  
Homelessness**  
MetroCenter, Auditorium
- 7 1:00 p.m.  
**Regional Planning Committee**  
MetroCenter, Auditorium
- 8 1:30 p.m.  
**Bay Trail Steering Committee**  
MetroCenter, Conference Room 106B
- 21 12 noon - 2:00 p.m.  
**ABAG POWER Executive  
Committee**  
MetroCenter, ABAG 106B

## Coming In September

### Richmond Point to Pier Trailhop Dedication Ceremony Saturday, September 14, 2002 • 10:00 a.m. - 12:00 p.m.

Attend the official opening of the Ferry Point Pier in Miller-Knox Regional Shoreline and the new National Historical Park along Richmond's shoreline. Afterwards hike, bike the Bay Trail, kayak along the shoreline, or join a guided bus tour of the area.

**For more information, contact ABAG Bay Trail Project at 510/464-7909.**

Sponsored by ABAG Bay Trail Project, the East Bay Regional Park District, Coastal Conservancy, the City of Richmond, AC Transit, Trails for Richmond Action Committee, and the National Park Service.



## Notable Numbers:

**67,837**

or 1% of Bay Area residents bike as their primary means of transportation to work or school.

**610,538**

or 9% of Bay Area residents walk as their primary means of transportation to work or school.

**321,100**

Bay Area residents use public transit including 183,900 from the Bay Area urban core and 137,100 from suburban or other urban cities.

**3.4%**

more commuters began using public transit to commute from the Bay Area urban core in the last decade.

**18.4%**

more commuters began using public transit to commute from suburban or other urban cities in the last decade.

**36%**

of the people who walked or biked along the Iron Horse Regional Trail in central Contra Costa County did so for transportation purposes.

**Transportation facts from Bay Area Census 2000 and the San Francisco Bay Trail Project.**



Association of Bay Area Governments  
P.O. Box 2050 • Oakland, CA 94604-2050  
website: <http://www.abag.ca.gov> • e-mail: [info@abag.ca.gov](mailto:info@abag.ca.gov)

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